Fig. 1

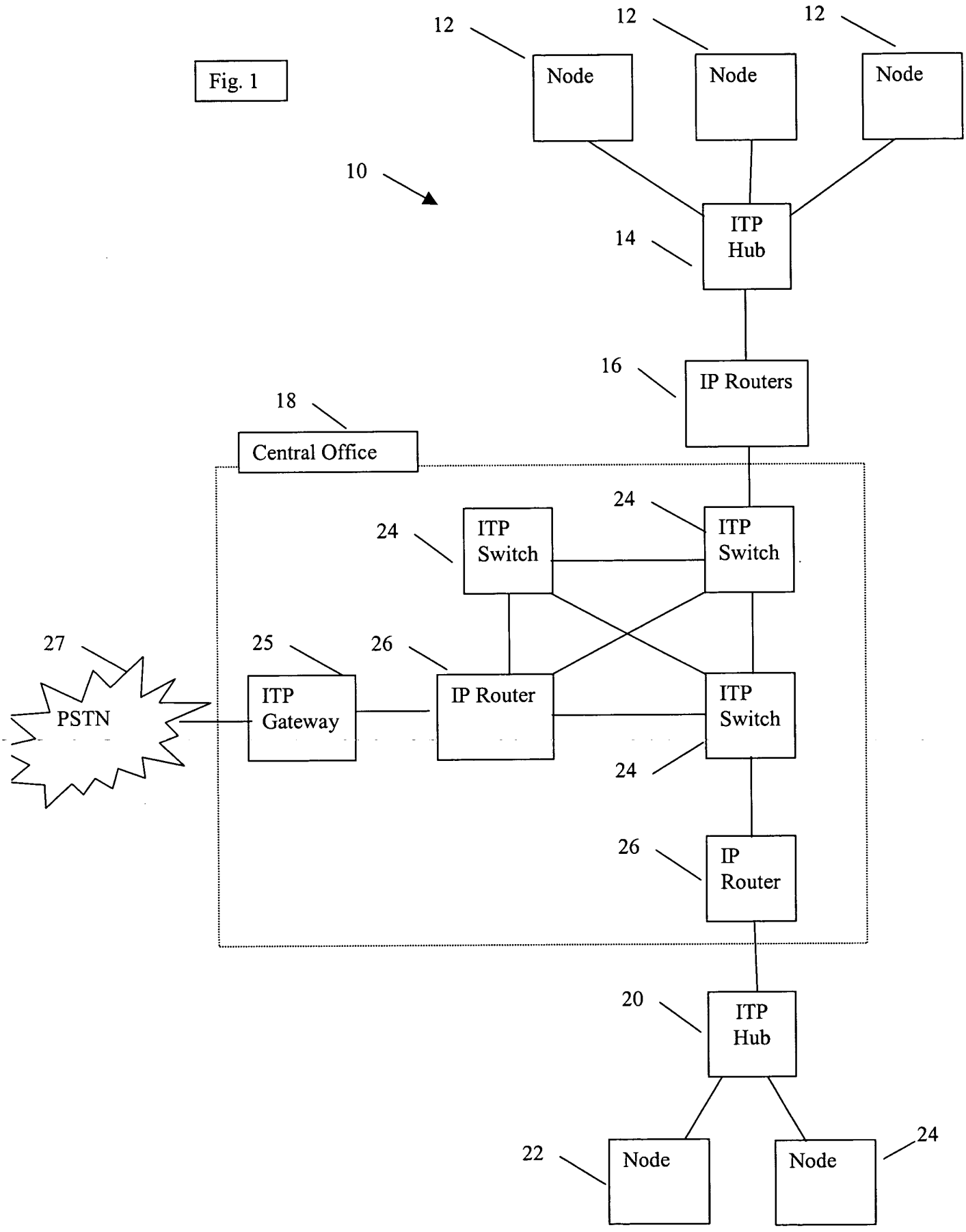

12
12
12
Node
Node
Node
10
ITP Hub
14
16
IP Routers
18
Central Office
24
24
ITP Switch
ITP Switch
27
25
26
PSTN
ITP Gateway
IP Router
ITP Switch
24
26
IP Router
20
ITP Hub
22
Node
Node
24

Fig. 6A

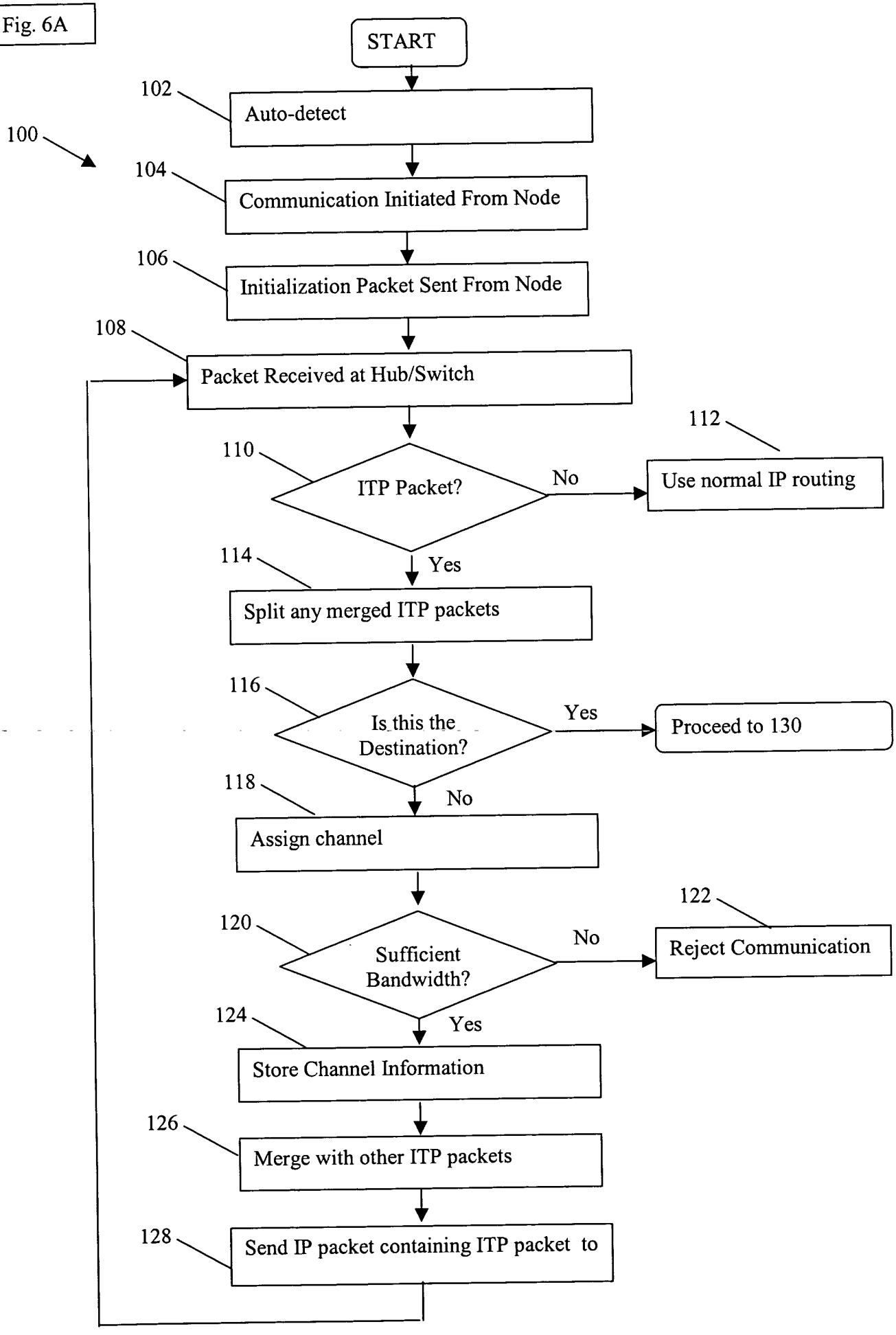

START
100
102
Auto-detect
104
Communication Initiated From Node
106
Initialization Packet Sent From Node
108
Packet Received at Hub/Switch
110
ITP Packet?
No
112
Use normal IP routing
Yes
114
Split any merged ITP packets
116
Is this the Destination?
Yes
Proceed to 130
No
118
Assign channel
120
Sufficient Bandwidth?
No
122
Reject Communication
Yes
124
Store Channel Information
126
Merge with other ITP packets
128
Send IP packet containing ITP packet to

Fig. 6B

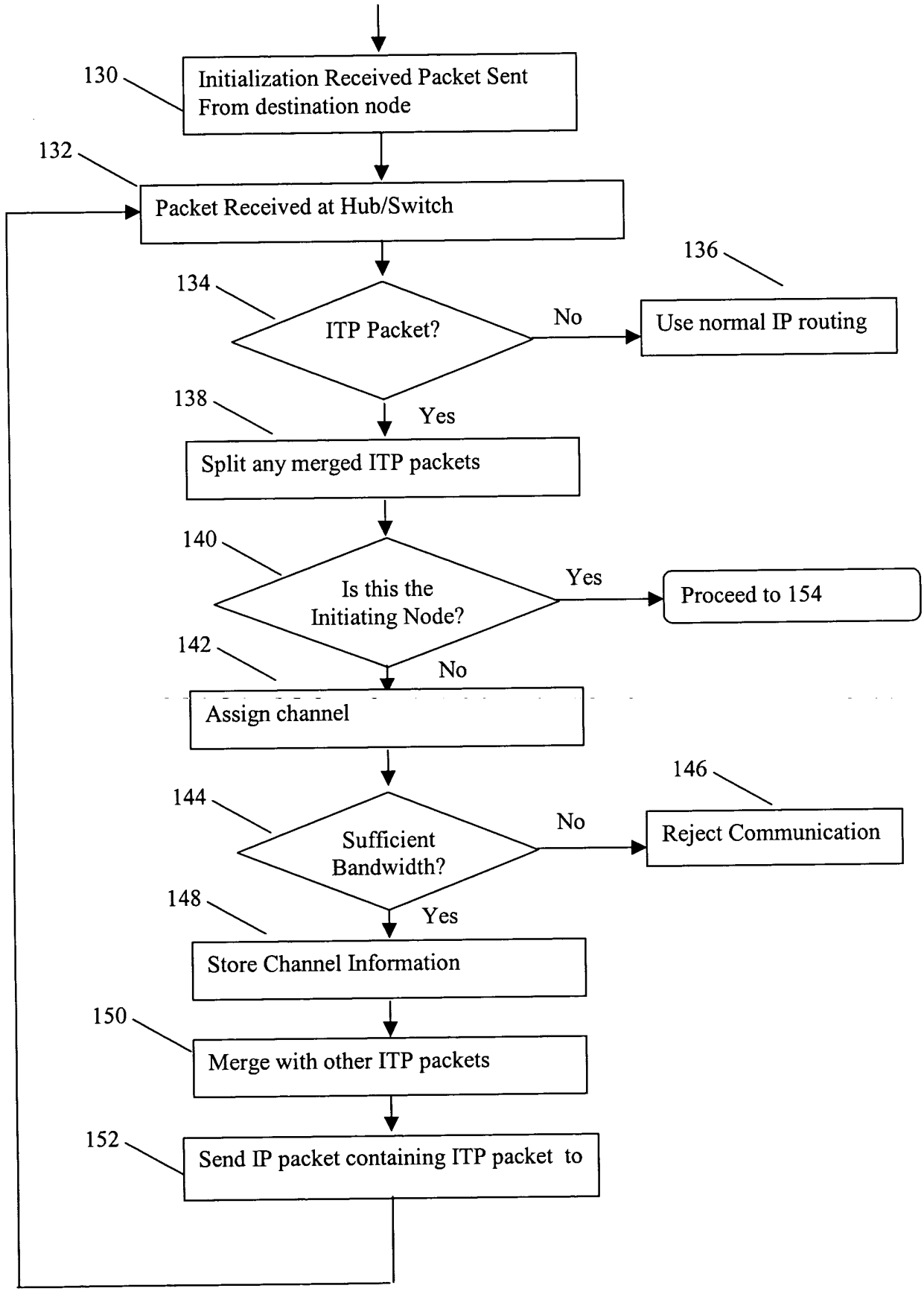

130
Initialization Received Packet Sent From destination node
132
Packet Received at Hub/Switch
134
ITP Packet?
No
136
Use normal IP routing
Yes
138
Split any merged ITP packets
140
Is this the Initiating Node?
Yes
Proceed to 154
No
142
Assign channel
144
Sufficient Bandwidth?
No
146
Reject Communication
Yes
148
Store Channel Information
150
Merge with other ITP packets
152
Send IP packet containing ITP packet to

Fig. 6C

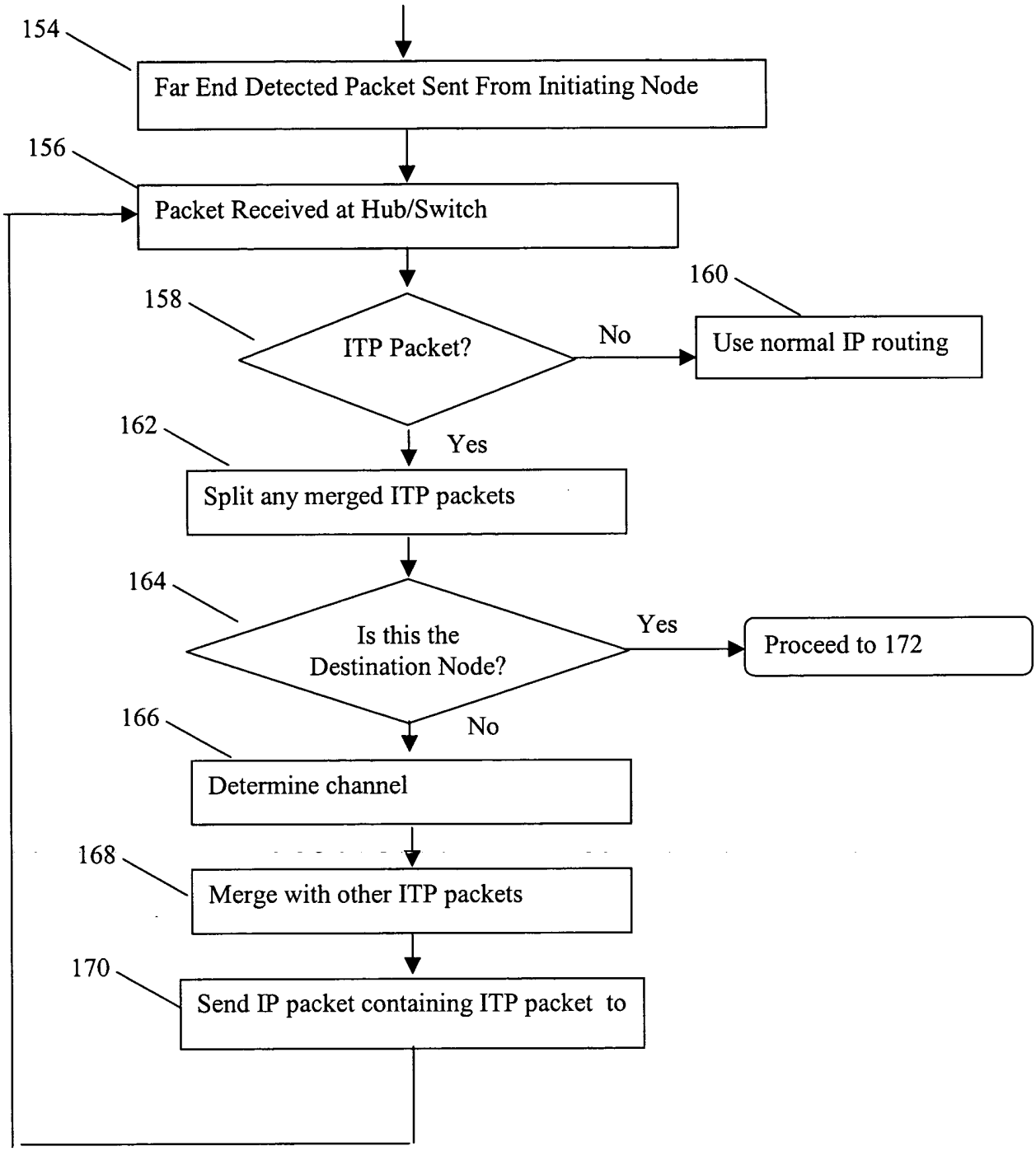
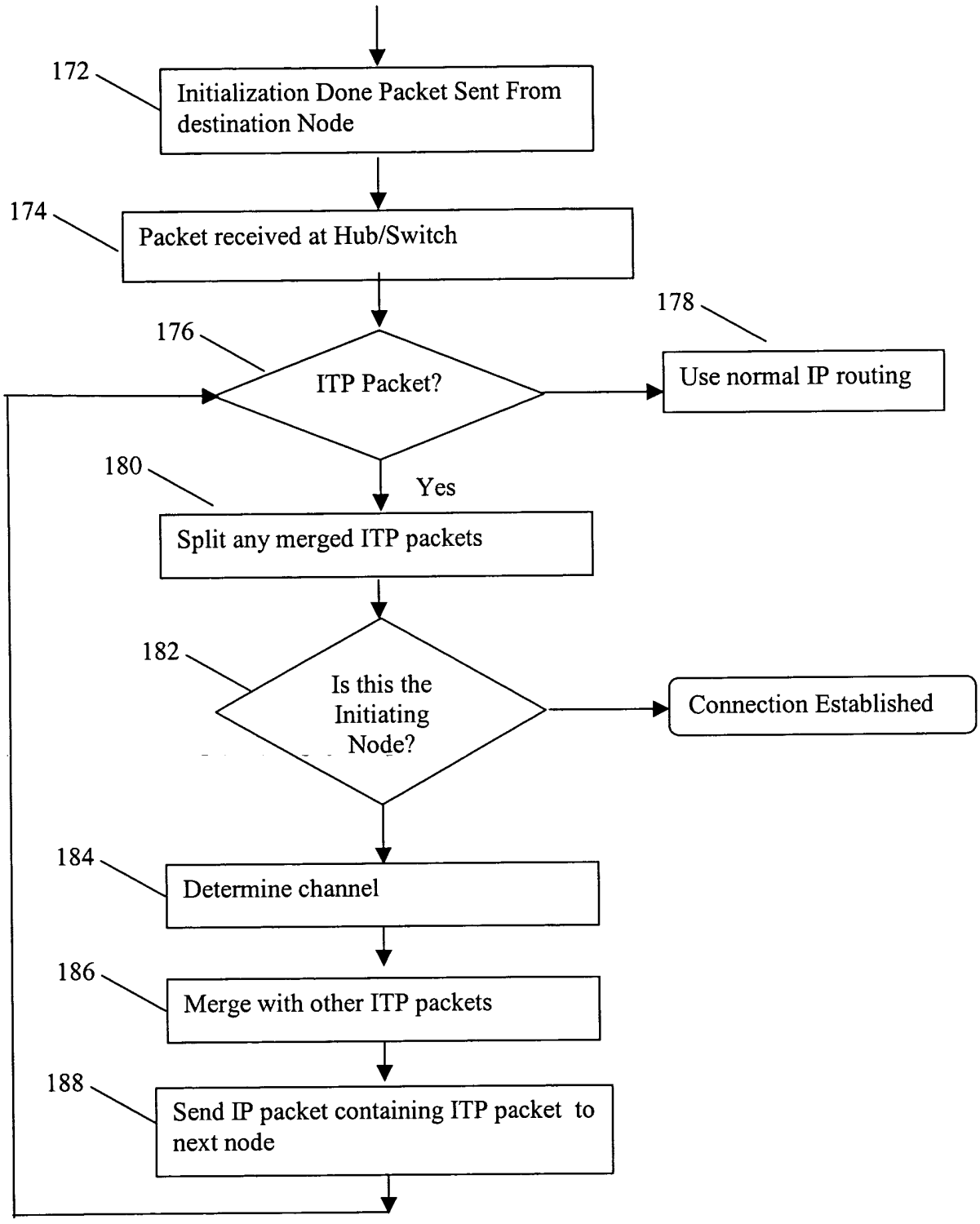

154
Far End Detected Packet Sent From Initiating Node
156
Packet Received at Hub/Switch
158
ITP Packet?
No
160
Use normal IP routing
Yes
162
Split any merged ITP packets
164
Is this the Destination Node?
Yes
Proceed to 172
No
166
Determine channel
168
Merge with other ITP packets
170
Send IP packet containing ITP packet to

Fig. 6D


172
Initialization Done Packet Sent From destination Node
174
Packet received at Hub/Switch
176
ITP Packet?
178
Use normal IP routing
Yes
180
Split any merged ITP packets
182
Is this the Initiating Node?
Connection Established
184
Determine channel
186
Merge with other ITP packets
188
Send IP packet containing ITP packet to next node

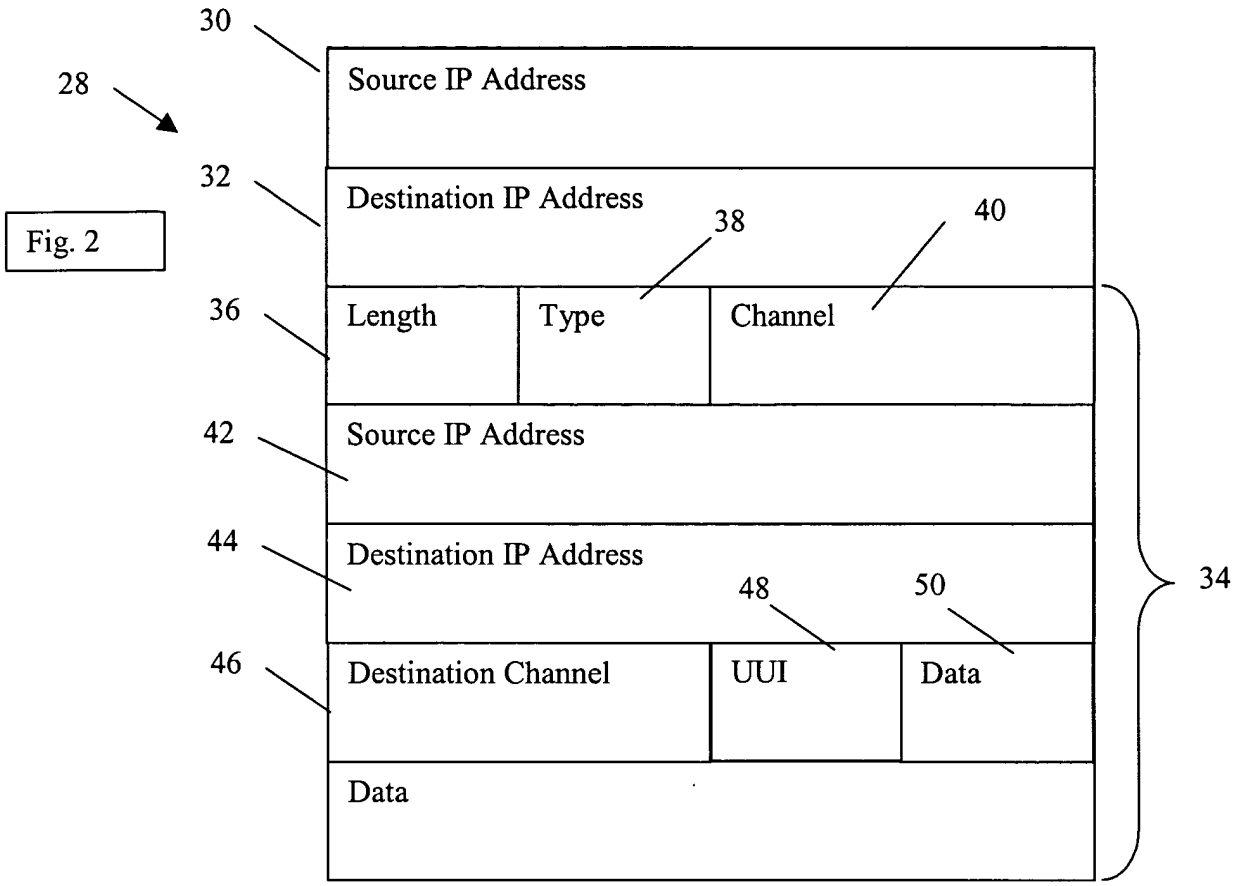

30
28
Source IP Address
32
Destination IP Address
38
40
Fig. 2
36
Length
Type
Channel
42
Source IP Address
44
Destination IP Address
48
50
34
46
Destination Channel
UUI
Data
Data

Fig. 3

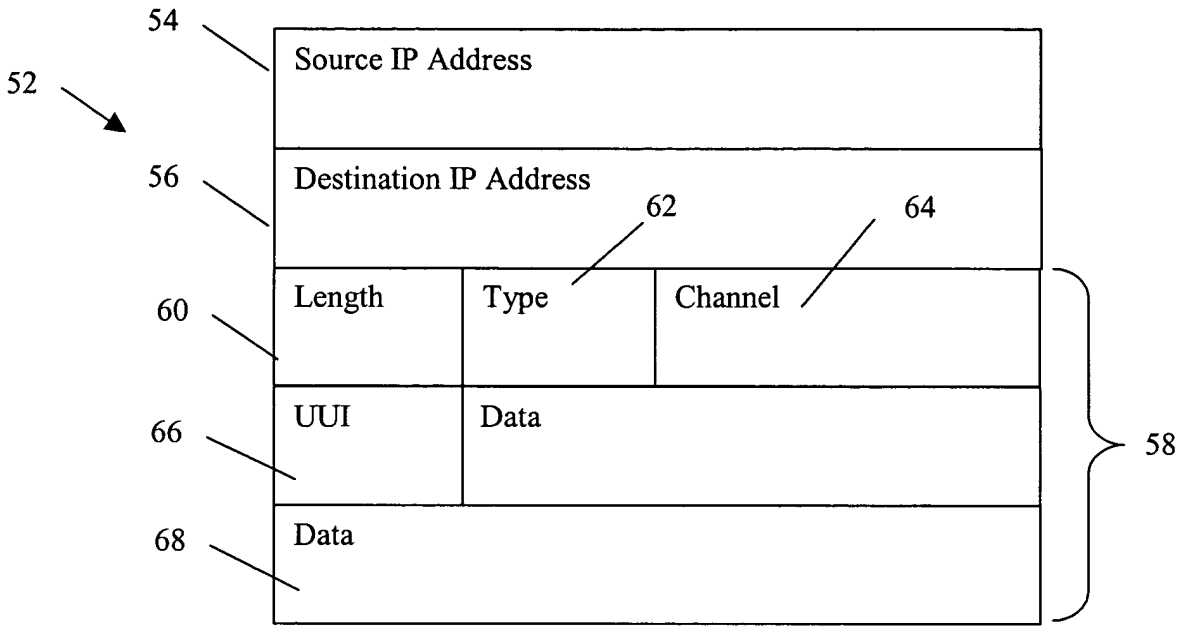
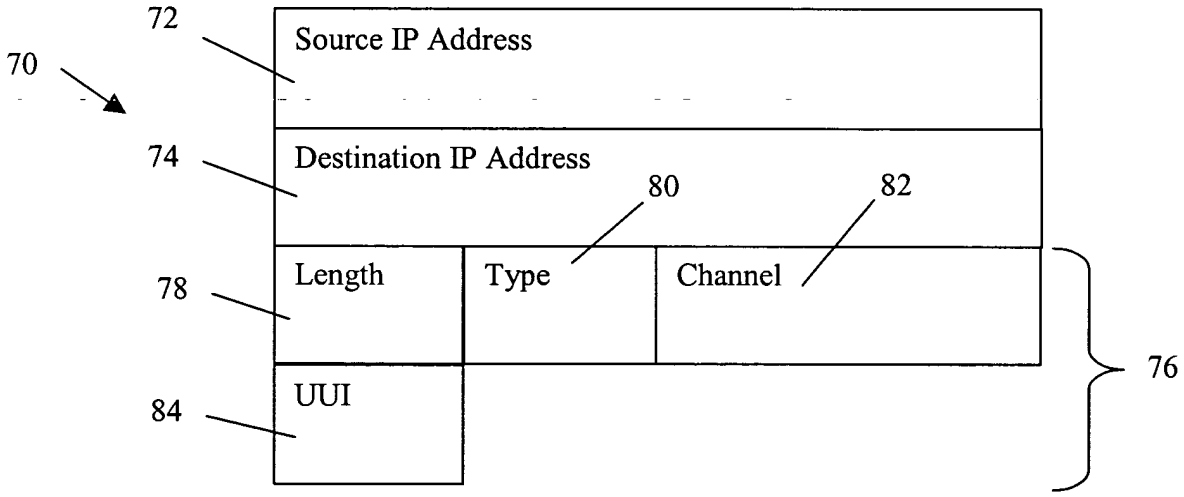

54
52
Source IP Address
56
Destination IP Address
62
64
60
Length
Type
Channel
66
UUI
Data
58
68
Data

Fig. 4


72
70
Source IP Address
74
Destination IP Address
80
82
78
Length
Type
Channel
76
84
UUI

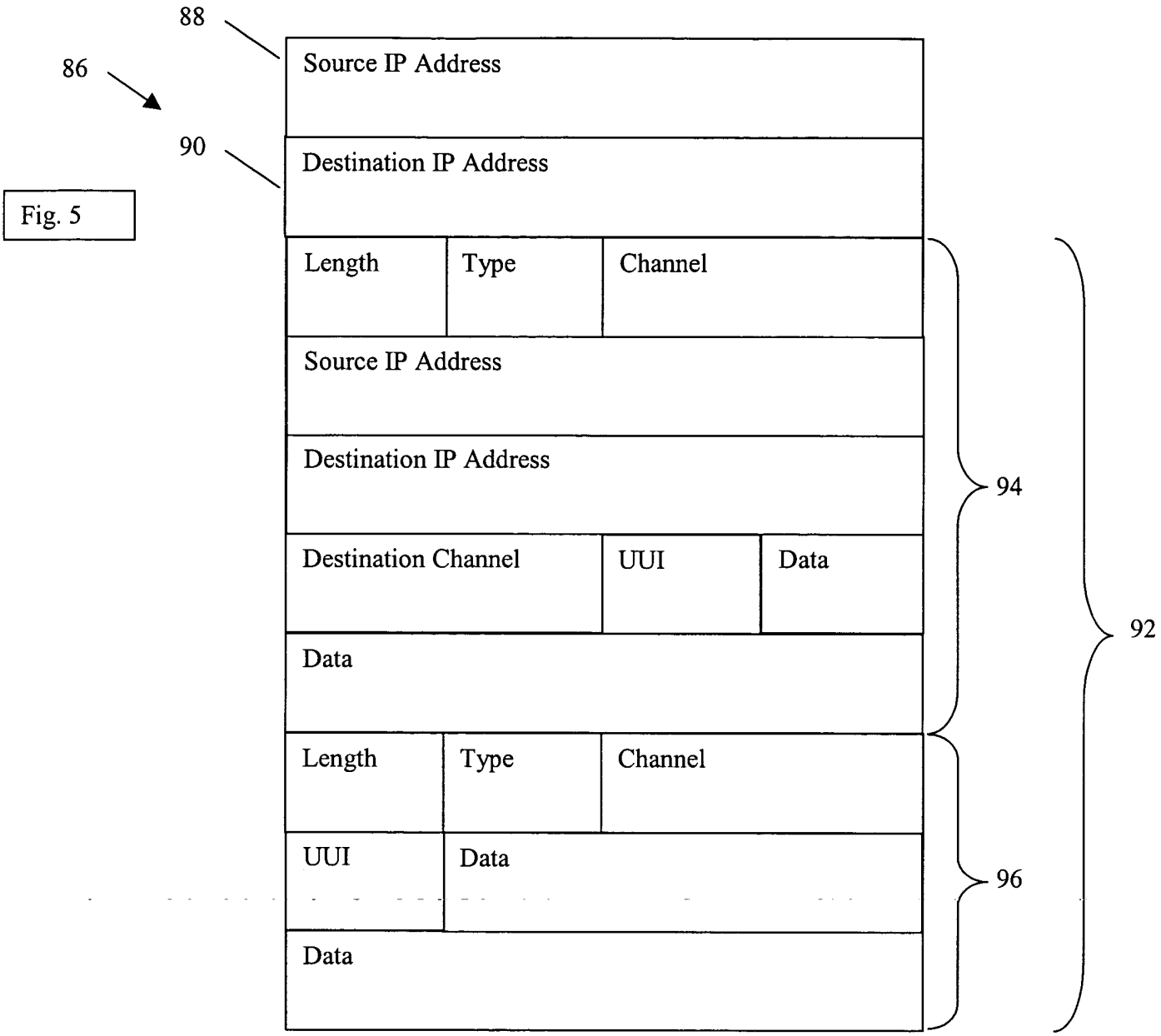

88
86
90
Source IP Address
Destination IP Address
Length
Type
Channel
Source IP Address
Destination IP Address
Destination Channel
UUI
Data
Data
Length
Type
Channel
UUI
Data
Data
94
96
92

Fig. 5